## Remediation Technology Symposium

Sponsored by the California Department of Toxic Substances Control

Co-sponsored by the
United States Environmental Protection Agency, Region 9
Ground Water Resources Association of California
California State University Sacramento Geology Department

May 14 -16 2008

Program Chairman: Brian Lewis, P.G. Photography: John Karachewski, Ph.D., P.G., C.Hg.

#### Program Chairman: Brian Lewis, DTSC



# Opening Remarks: Watson Gin, DTSC Chief Engineer



## Murray Einarson, Geomatrix Consultants Site Characterization and Monitoring in the New Millennium



# Brad Call, US Army Corps of Engineers The Triad Approach for Investigation and Remediation



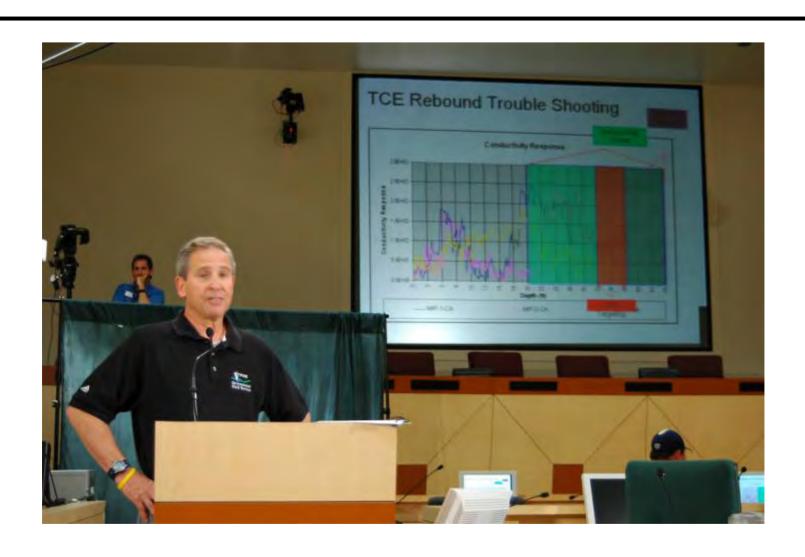
# Brad Call, US Army Corps of Engineers The Triad Approach for Investigation and Remediation



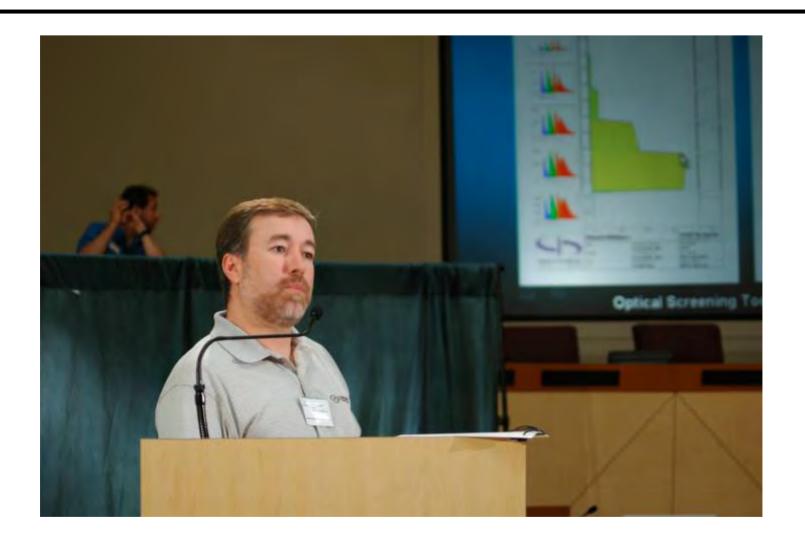
# Brad Call, US Army Corps of Engineers The Triad Approach for Investigation and Remediation



#### Eliot Cooper, Vironex Membrane Interface Probe (MIP) For Remedial Design Data



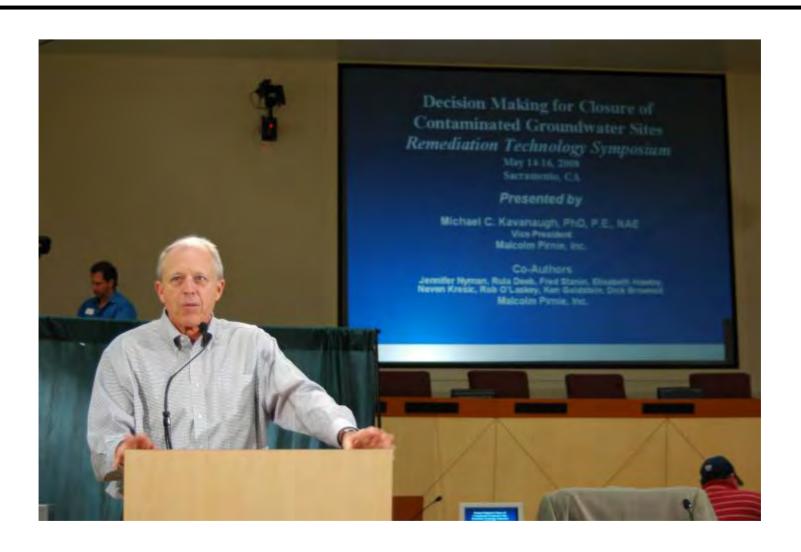
#### Randy St. Germain, Dakota Technologies New Generation Optical Sensors for Characterizing NAPL Source Zones



#### DTSC staff networking with colleagues and vendors



# Michael Kavanaugh, Malcolm Pirnie, Inc. Decision-Making for Source Remediation



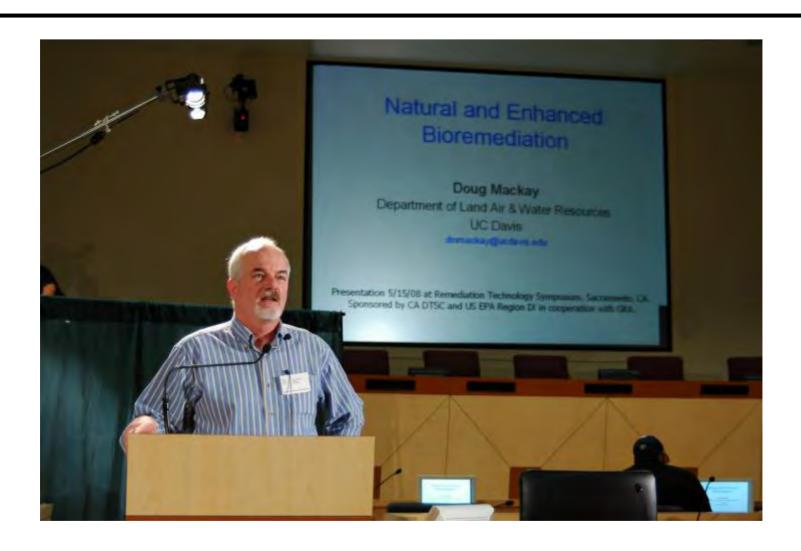
# Michael Kavanaugh, Malcolm Pirnie, Inc. Decision-Making for Source Remediation



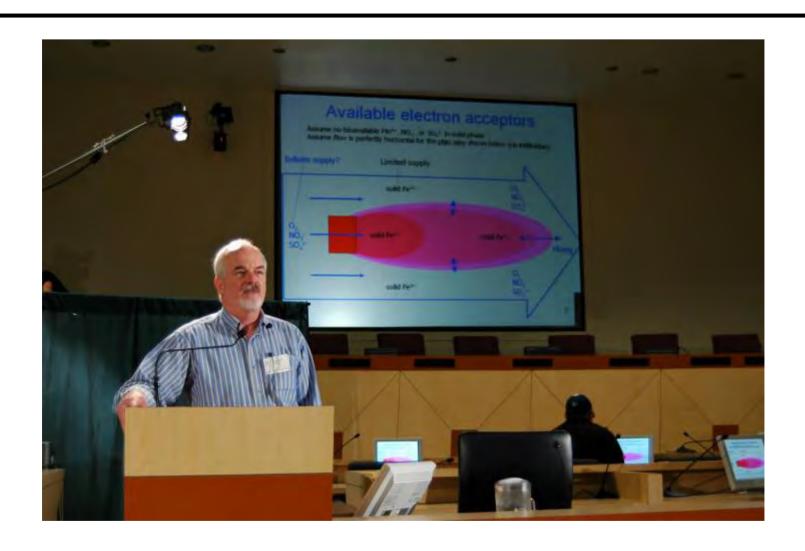
#### Paul Johnson, Arizona State University Air Technologies for Subsurface Remediation



#### Doug Mackey, University of California, Davis Natural and Enhanced Bioremediation



#### Doug Mackay, University of California, Davis Natural and Enhanced Bioremediation



# Ryan Wymore, CDM In-Situ Bioremediation for Source Remediation of Volatile Organic Compounds



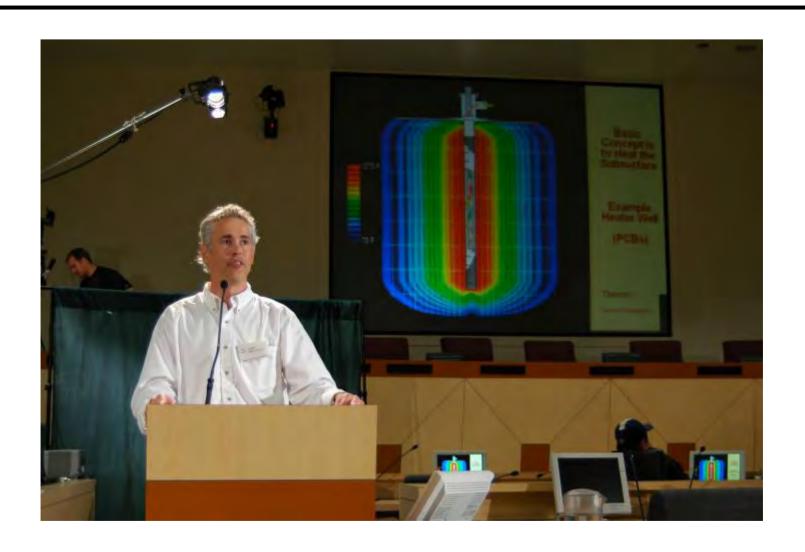
## Evan Cox, Geosyntec Consultants Combined Remedies for Chlorinated Solvent and Perchlorate Sites



#### Wilson Clayton, Aquifer Solutions In-Situ Chemical Oxidation



# Mike Basel, Haley & Aldrich In-Situ Thermal Remediation



#### **Panel Discussion**



#### **Panel Discussion**



#### **Panel Discussion**



#### Closing Remarks and Acknowledgments Maureen Gorsen, Director, DTSC



#### Closing Remarks and Acknowledgments Brian Lewis and Maureen Gorsen



#### Field Demonstration at CSU Sacramento



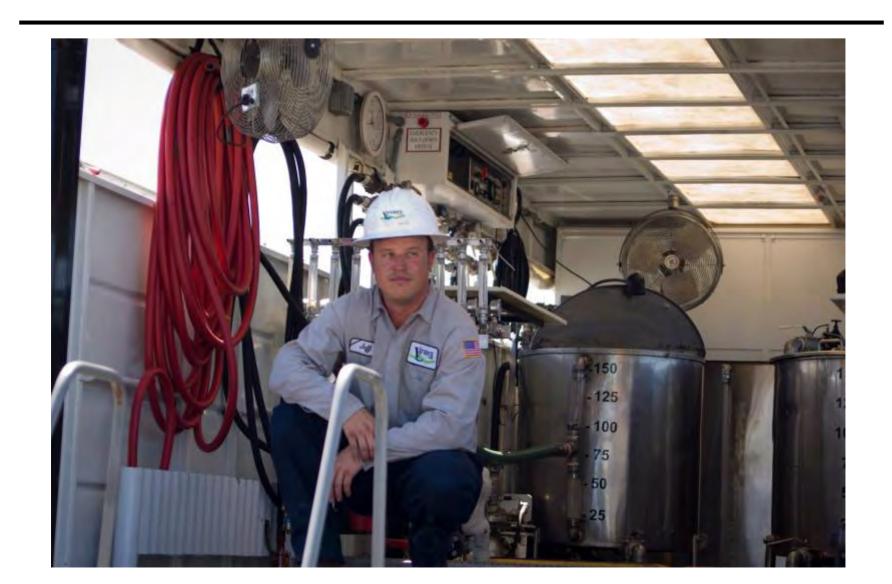




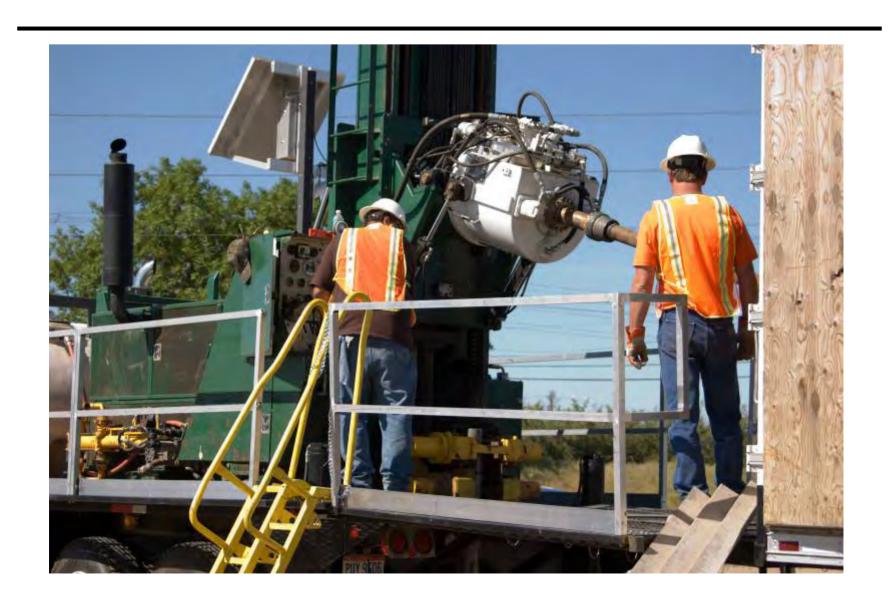




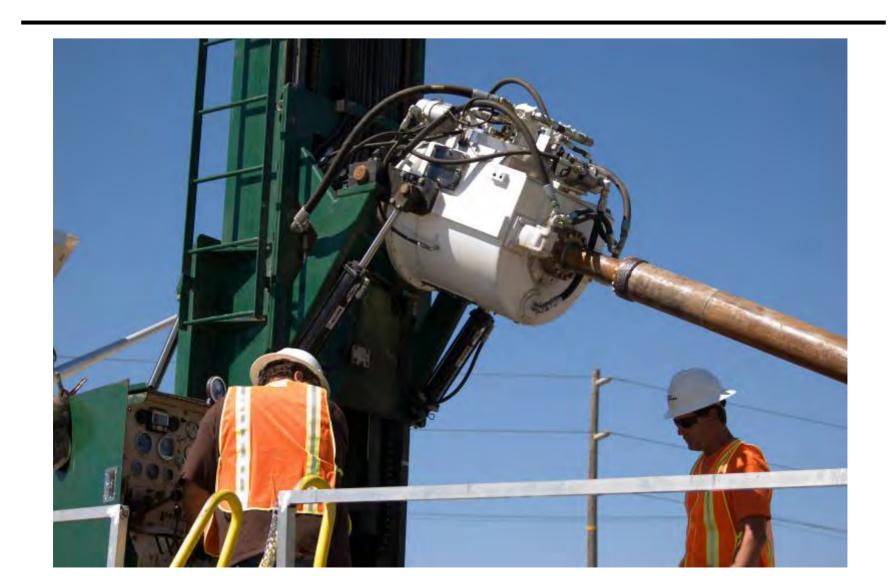




## **Boart Longyear Company**

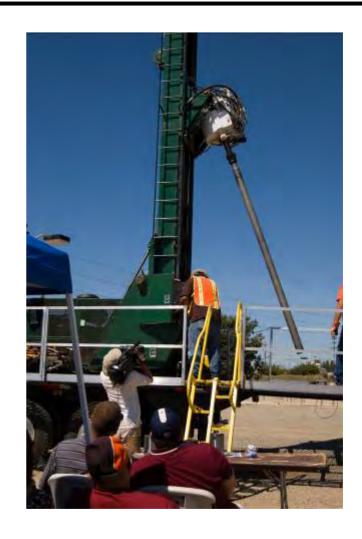


## **Boart Longyear Company**



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#### **EOS Remediations**



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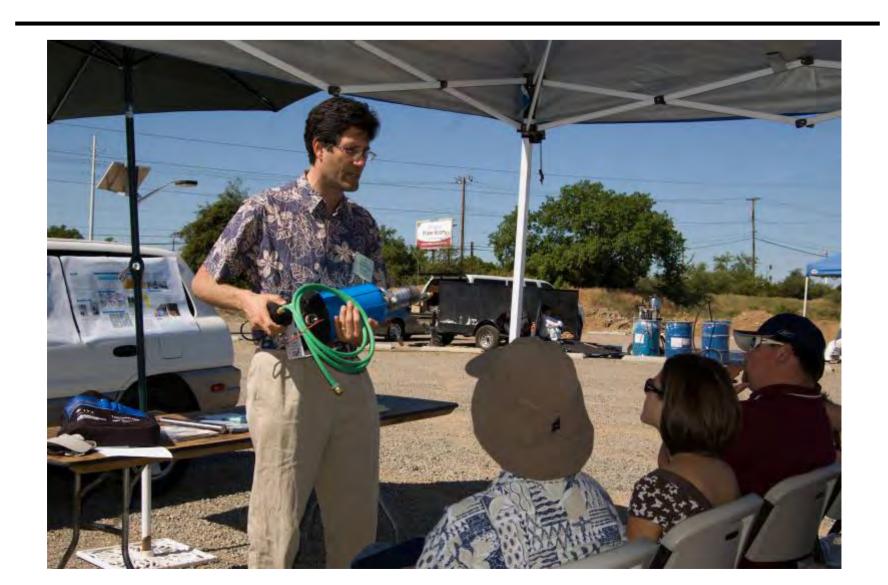
## Blaine Tech Services, Inc.



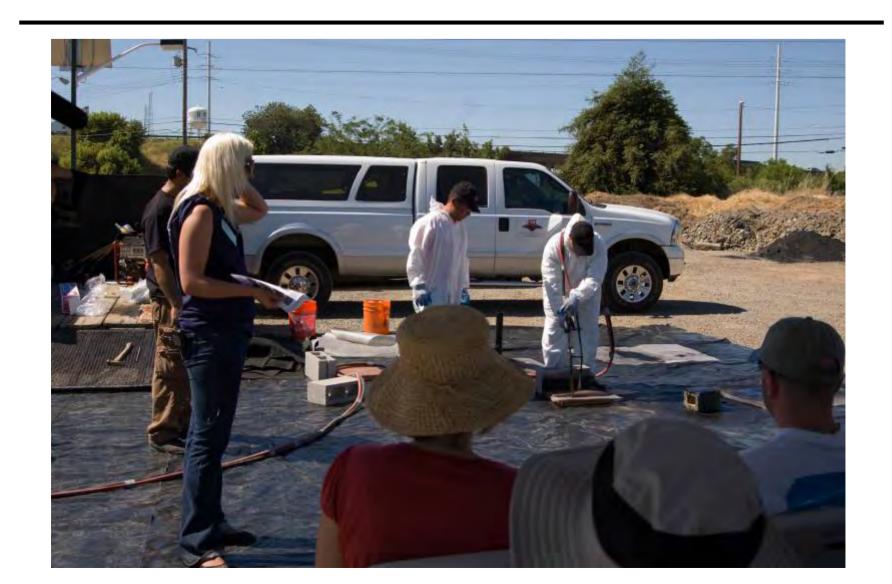
# Environmental Bio-Systems, Inc. Jim Jacobs



#### Environmental Bio-Systems, Inc. Jim Jacobs



## **CETCO Liquid Boot Company**



## **RSI Drilling**



## **RSI Drilling**

